

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1. (currently amended) A non-aqueous rechargeable lithium battery having a lithium insertion compound positive electrode, a negative electrode of one or more of lithium, lithium compound, and carbon, a solvent for a non-aqueous electrolyte containing a lithium salt and a blend of flame retardants and anode passivation additives, and gassing suppression additives, said flame retardant additive selected from one or more of aryl/alkyl phosphate, such as a triphenyl phosphate, $(C_6H_5)_3PO_4$, a diphenyl monobutylphosphate, (DMP) $C_4H_9(C_6H_5)_2PO_4$, and a phenyl alkyl phosphate, $(C_6H_5)R_2PO_4$, a cyclic ethyl carbonate, $C_2H_4CO_3$, and derivatives thereof, where the 1 to 4 hydrogen groups are replaced with a C1-C6 alkane, a fluoridated C1-C6 alkane, an unsaturated alkane carbonate and a mixtures thereof, and said anode passivation ~~material~~ additives being one or more of the following: vinyl ethylene carbonate, vinyl quinone, vinylcrotonate, 9-fluorenone, vinyl acetate, tribally triazine trione, 4,5-diethenyl-1,3-dioxolan-2-one, 4-ethenyl benzene-1,3-dioxolan-2-one, methyl silyl carbonate, 1,5-hexene-2,3-carbonate, 4-methyl-4-silyl-1,3-dioxolan-2-one, 4,5-diphenyl-1,3-dioxolan-2-one, 4,4-diphenyl-1,3-dioxolan-2-one, vinyl ethylene sulfite, 4-methoxymethyl-1,3-dioxolan-2-one, 4-hydroxymethyl-1,3-dioxolan-2-one, 4-(1-propenoxymethyl)-1,3-dioxolan-2-one, 4-(2-propenyl)-1,3-dioxolan-2-one, ethyl-2-furoate, 4-ethenol-1,3-dioxolan-2-one, 2-methoxyl-1,3-dioxolan, divinylphenyl carbonate, dicarbonate quinone, ec hydrazine, bis-N,N-dimethylcarbamate, 4,4-dimethyl-5-methylene-1,3-dioxolan-2-one, benzene tetracarboxyldianhydride, 4-methoxyphenyl-1,3-dioxolan-2-

one, 4-trifluorobenzyl-1,3-dioxolan-2-one.

Claim 2. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is one of the following or combination thereof: vinylcrotonate, 9-fluorenone, vinyl acetate, tribally triazine trione, 4,5-diethenyl-1,3-dioxolan-2-one, 4-ethenyl benzene-1,3-dioxolan-2-one, methyl silyl carbonate, 1,5-hexene-2,3-carbonate, 4-methyl-4-silyl-1,3-dioxolan-2-one, 4,5-diphenyl- 1,3-dioxolan-2-one, 4,4-diphenyl-1,3-dioxolan-2-one, vinyl ethylene sulfite, 4-methoxymethyl-1,3-dioxolan-2-one, 4-hydroxymethyl-1,3-dioxolan-2-one, 4-(1-propenoxymethyl)-1,3-dioxolan-2-one, 4-(2-propenyl)-1,3-dioxolan-2-one, ethyl-2-furoate, 4-ethenol-1,3-dioxolan-2-one, 2-methoxyl-1,3-dioxolan, divinylphenyl carbonate, dicarbonate quinione, ec hydrazine, bis-N,N-dimethylcarbamate, 4,4-dimethyl-5-methylene-1,3-dioxolan-2-one, benzene tetracarboxyldianhydride, 4-methoxyphenyl-1,3-dioxolan-2-one, 4-trifluorobenzyl-1,3-dioxolan-2-one.

Claim 3. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is a mixture of monobutyl-diphenyl phosphate, dibutyl-monophenyl phosphate and vinyl ethylene carbonate.

Claim 4. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an additive is a mixture of monopropyl-diphenyl phosphate, dipropyl-monophenyl phosphate and vinyl ethylene carbonate.

Claim 5. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is a mixture of triphenyl phosphate, vinyl ethylene carbonate and dibutyl-monophenyl phosphate.

Claim 6. (original) A non-aqueous rechargeable lithium battery as in Claim 1, wherein the additive is a mixture of monobutyl-diphenyl phosphate and diamyl-monophenyl phosphate and vinyl ethylene carbonate.

Claim 7 (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is monobutyl-diphenyl phosphate and vinyl ethylene carbonate.

Claim 8. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is dibutyl-monophenyl phosphate and vinyl ethylene carbonate.

Claim 9. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is tripropyl phosphate, triphenyl phosphate, and ethyl-2-furoate

Claim 10 (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is monoamyl-diphenyl phosphate and methyl silyl carbonate

Claim 11 (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein the additive is a mixture of triphenyl phosphate and vinyl ethylene carbonate, present up to about 3-wt% of the electrolyte.

Claim 12 (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is a mixture of monofluoroethylene carbonate and triphenyl phosphate, each present up to about 3 wt% of the electrolyte.

Claim 13. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is vinyl ethylene carbonate and tributyl phosphate and

a fluoridated hexane.

Claim 14. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ the additive is monoamyl-diphenyl phosphate, and vinyl ethylene sulfite.

Claim 15. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ the additive is a mixture of triphenyl phosphate, monoamyl-diphenyl phosphate and vinyl ethylene carbonate.

Claim 16. (original) A non-aqueous rechargeable lithium battery as in Claim 1, wherein the additive is monophenyl ethylene carbonate and monophenyl dibutyl phosphate.

Claim 17. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~, the additive is a mixture of monophenyl carbonate and triphenyl phosphate.

Claim 18. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein ~~the~~ an additive is a mixture of 1,2-difluoroethylene carbonate and triphenyl phosphate.

Claim 19. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein ~~the~~ an additive is a mixture of 1,2-difluoroethylene carbonate, triphenyl phosphate and monobutyl-diphenyl phosphate.

Claim 20. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein ~~the~~ an additive is monofluorovinyl ethylene carbonate, and tripropyl phosphate.

Claim 21. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, wherein an ~~the~~ additive is a mixture of monofluorovinyl ethylene carbonate and triphenyl phosphate.

Claim 22. (original) A non-aqueous rechargeable lithium battery as in Claim 1, wherein the total concentration of additive is between 0.01 wt% and 20wt% by weight of the electrolyte.

Claim 23. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, in which an ~~said~~ additive is vinyl ethylene carbonate and tributyl phosphate.

Claim 24. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, in which an ~~said~~ additive is vinyl quinone.

Claim 25. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, in which an ~~said~~ additive is a mixture of vinyl crotonate or ~~derivative~~ derivative thereof and triphenyl phosphate.

Claim 26. A non-aqueous rechargeable lithium battery as in Claim 1, in which an ~~said~~ additive is a mixture of 9-fluorenone, and tripropyl phosphate.

Claim 27. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, in which ~~said compound~~ an additive is vinylimidazole.

Claim 28. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 1, in which an ~~said~~ additive is N-vinyl-2 pyrrolidinone and triphenyl phosphate.

Claim 29. (currently amended) A non-aqueous rechargeable lithium battery as in Claim 2, in which ~~said compound is~~ additives are added in a proportion of 0.001% to 20% by weight of said electrolyte.

Claim 30. (original) A non-aqueous rechargeable lithium battery as in Claim 1, in which the solvent includes propylene carbonate and one or more solvents selected from ethylene carbonate, dimethyl carbonate, ethyl methyl carbonate or similar organic carbonate solvents.

Claim 31. (original) A non-aqueous rechargeable lithium battery as in Claim 1, in which said lithium salt is selected from lithium hexafluorophosphate, lithium tetrafluoroborate, lithium hexafluoroarsenate lithium perchlorate or amide salt.

Claim 32 (original) A non-aqueous rechargeable lithium battery as in Claim 1, in which said positive electrode is selected from an oxide or phosphate of lithium metal or manganese, nickel, cobalt and iron, or a combination thereof.